## CLAIMS

What is claimed is:

1. A method of applying a heat-rejection coating, comprising the steps of: supplying a metallic component of a gas turbine engine;

providing a reflective-coating mixture, wherein the reflective-coating mixture comprises a metallic pigment and a reflective-coating-mixture carrier;

applying the coating mixture to a surface of the component by a method selected from the group consisting of air-assisted spraying, airless spraying, brushing, and decal transfer; and

firing the component surface having the reflective-coating mixture thereon to form a reflective coating on the component.

- 2. The method of claim 1, wherein the step of applying the reflective-coating mixture includes the step of air-assisted spraying the reflective-coating mixture.
- 3. The method of claim 1, wherein the step of supplying the metallic component includes the step of supplying the component comprising a cobalt-base superalloy.
- 4. The method of claim 1, wherein the step of supplying the metallic component includes the step of supplying the component comprising a nickel-base superalloy.
- 5. The method of claim 1, wherein the step of supplying the metallic component includes the step of supplying the component comprising a titanium alloy.
- 6. The method of claim 1, wherein the step of providing the reflective-coating mixture includes providing the reflective-coating mixture that includes metallic pigment selected from the group consisting of platinum, gold, palladium, silver, rhodium and alloys thereof.

- 7. The method of claim 1, wherein the step of providing the reflective-coating mixture includes providing the reflective-coating mixture that further includes an organic reflective-coating-mixture carrier.
- 8. The method of claim 1, wherein the step of applying the reflective-coating mixture includes the method of air-assisted spraying the reflective-coating mixture such that the reflective coating is present in an amount of from about 0.00275 to about 0.00475 grams per square inch.
- 9. The method of claim 1, further including an additional step before the step of applying the reflective-coating mixture, of applying a ceramic barrier coating onto the surface of the component.
- 10. The method of claim 9 wherein the step of applying the reflective-coating mixture includes applying the reflective-coating mixture onto the ceramic barrier coating applied to the component.
- 11. The method of claim 9, wherein the step of applying the ceramic barrier coating includes applying a ceramic material selected from the group consisting of lanthanum and cerium.
- 12. The method of claim 9, wherein the step of applying the ceramic barrier coating includes applying a ceramic-barrier-coating mixture such that the reflective coating and the ceramic barrier coating are together present in an amount of from about 0.00325 to about 0.00625 grams per square inch.
- 13. The method of claim 9, further including the step of drying the ceramic-barrier-coating mixture after applying the ceramic barrier coating mixture.
- 14. The method of claim 9 wherein the step of applying the ceramic barrier coating further includes applying the ceramic barrier coating mixture by air-assisted spraying.

- 15. The method of claim 1, further including an additional step before the step of applying the reflective-coating mixture, of polishing the component surface.
- 16. The method of claim 1, further including an additional step before the step of providing the reflective-coating mixture, of pre-oxidizing the component surface of the component.
- 17. The method of claim 1, further including the additional steps before the step of providing the reflective-coating mixture, of polishing the component surface of the component, and thereafter pre-oxidizing the component surface.
- 18. The method of claim 1, further including the additional steps before the step of applying the reflective-coating mixture, of polishing the component surface of the component, thereafter polishing the component surface, and thereafter applying the ceramic barrier coating onto the pre-oxidizing component surface.
- 19. The method of claim 1 wherein the step of providing the reflective-coating mixture further includes providing a mixture including a noble metal encapsulator.
- 20. The method of claim 1 wherein the step of providing the reflective-coating mixture further includes providing a mixture including a flux.
- 21. The method of claim 1 wherein the step or providing the reflective-coating mixture includes providing a mixture including a predetermined amount of filler.
- 22. The method of claim 21 wherein the filler is glass or ceramic materials.
- 23. The method of claim 21 wherein the filler comprises up to about 25 percent of the reflective-coating mixture by weight.
- 24. A method of applying a heat-rejection coating, comprising the steps of:

supplying a metallic component of a gas turbine engine, the component comprising a nickel-base superalloy and having a component surface;

pre-treating the component surface; thereafter

air-assisted spraying a reflective-coating mixture onto the pre-treated component surface, the reflective-coating mixture comprising a metallic pigment and a reflective-coating-mixture carrier; and

firing the component surface having the coating mixture thereon.

- 25. The method of claim 24, wherein the step of pre-treating the component surface includes the step of polishing the component surface, the method of claim 25 further including the steps of pre-oxidizing the component surface, and thereafter applying a ceramic barrier coating onto the component surface.
- 26. The method of claim 25, wherein the step of applying the ceramic barrier coating includes the steps of air-assisted spraying a ceramic-barrier-coating mixture onto the component, and drying the ceramic-barrier-coating mixture.